Walleye - Sauger

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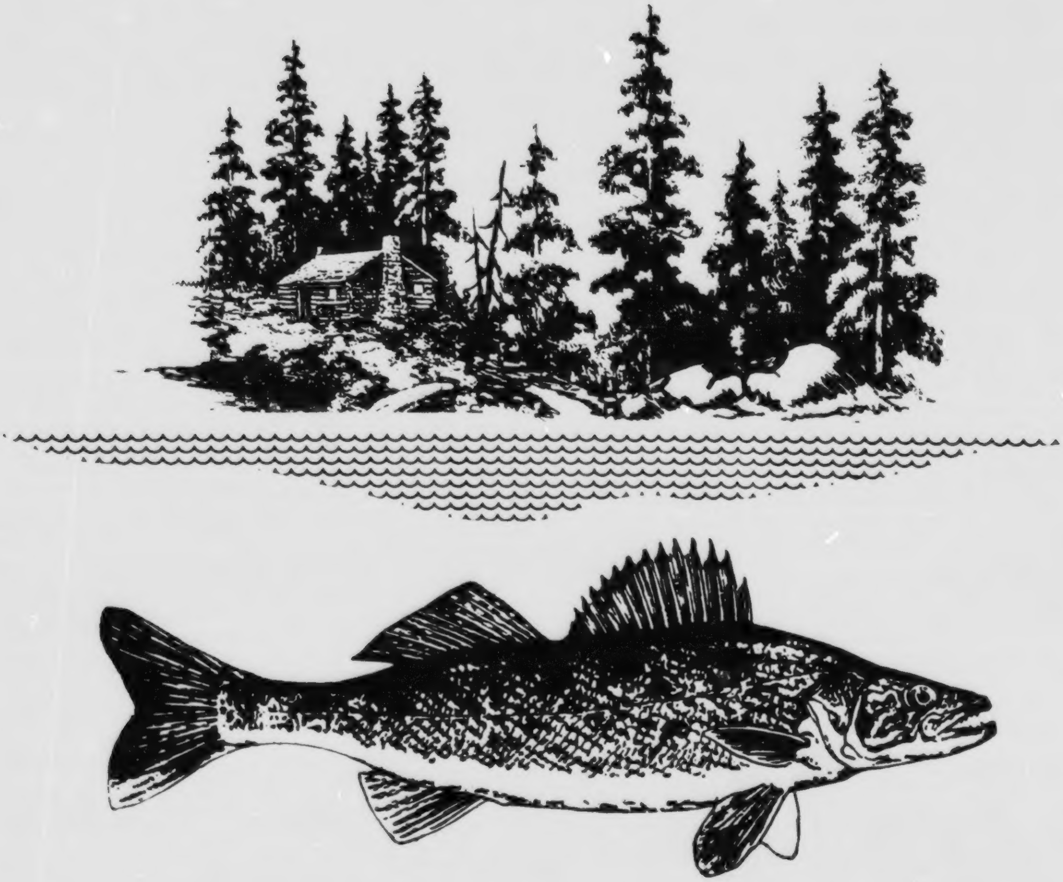

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WALLEYE — SAUGER

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INTRODUCTION

This bibliography on sauger *(Stizostedion canadense)* and walleye *(Stizostedion vitreum vitreum)* is the result of a joint effort between the Minnesota Department of Natural Resources and Ontario Ministry of Natural Resources. Our goal is to update the work by Addison and Ryder (1970) and to facilitate the revision of the synopsis of biological data on walleye (Colby et al. 1979).

This bibliography was developed on Wordstar[1] with dms4Cite[2] being used to format the references. References were obtained from electronic data base searches, reference documents, lists submitted by various State, Federal and Provincial Governments, and from personal libraries. Only technical and scientific publications were used. We did not include titles from popular magazines. Progress reports are listed only if a completion report was unavailable. Unpublished reports by State or Provincial Governments were included because of their usefulness at a local or regional level. The last date for adding new references was January 1988, however, we continued to add references into 1988 if they were available prior to going to the printers.

References are listed alphabetically by author. Keywords are listed after each reference. A listing of each reference number for each species are also listed by keyword.

We request feedback from the readers as to any correction or omissions. We would also appreciate copies of future publications so that they can be included in revisions of this bibliography. It is currently planned to revise the paper copy of this document every five years. By correcting errors and omissions in this document and adding new publications to the data base, future revisions will increase in accuracy.

KEYWORDS

AGE AND GROWTH: age, growth, size (length and weight), techniques and structures used to obtain ages.

BEHAVIOR: ethology, qualitative behavior, techniques and equipment for observations (including taxis, homing, telemetry).

COMMERCIAL FISHERIES: catch statistics, regulations.

COMMUNITY DYNAMICS: inter- and intra-specific competition, predation, community management (including coarse fish removal), trophodynamics.

CREEL CENSUS: angling catch statistics, techniques, gear.

ECOLOGY: used in its broadest sense — i.e., the relation of the organism to its environment.

EMBRYOLOGY: descriptive, ecological, and physiological embryology.

FISHING GEAR: materials and construction, selectivity.

FISHWAYS: design, operation, and effectiveness of man-made structures which assist migrating fish past obstacles.

FOOD STUDIES: descriptions of food ingested, selective feeding, and feeding behavior and related methodology.

GENETICS: descriptive genetics, hybridization, introgression, and strains.

GEOGRAPHIC DISTRIBUTION: studies of the geographic distributions patterns of the species.

HABITAT DEGRADATION: identification and measurement of pollution and its sublethal and lethal effects, including eutrophication, acidification, dredging, channelization, erosion, sedimentation.

HABITAT IMPROVEMENT: man's alteration of the habitat to increase yield, including such techniques as fertilization, construction of shelters, and artificial spawning grounds, etc.

IMPOUNDMENTS: studies of fish in bodies of water created or altered by a dam or barrier.

INTRODUCTIONS: the stocking of non-indigenous species.

LIFE HISTORY: confined to papers dealing generally with several stages of life history.

MARKING: all means of marking fish for later identification, including tags, chemicals,

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brands, fin clips, and their associated side-effects.

MORPHOLOGY: all aspects of morphology, especially morphometry.

MORTALITY: its causes, measurement and effects on populations.

MOVEMENT AND MIGRATIONS: vertical and horizontal fish movements, and distribution within a water body.

PATHOLOGY: all aspects of fish disease, including parasitology.

PHYSIOLOGY: includes metabolic and other functional processes and behavior resulting from same.

POPULATION STUDIES: measurement of population parameters, including mortality, population estimates and exploitation, ages composition, maturity schedules, recruitment, proportional stock density.

PRODUCTIVITY: the measurement or estimation of fish yield (actual or potential), standing crops and their relation to environmental factors.

PROPAGATION: the techniques, equipment and food for artificially rearing fish at all stages.

REGULATIONS: size limits, seasons, sanctuaries, catch limits, gear restrictions.

SAMPLING METHODS: includes the techniques (physical and biometric) and equipment for sampling fish populations.

SOCIO-ECONOMICS OF FISHERIES: description of social and economic factors influencing and/or resulting from fisheries, both sport and commercial.

SPAWNING STUDIES: description of spawning areas, spawning, fecundity, and age at maturity.

STOCKING: locale, techniques and equipment for stocking fish, as well as the assessment of stocking as a management tool.

TAXONOMY: the history and techniques of systematic studies of the North American *Stizostedion* species.

TOXICANTS: the description of chemical agents and their effects on fish, including selective anesthetics and piscidies. Bioassays.

WATER LEVELS: water level fluctuations as stresses on fisheries or as a management tool.

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2044 2045 2049 2055 2057 2068 2073 2075 2076 2087
2089 2118 2119 2122 2125 2132 2133 2134 2140 2143
2144 2145 2147 2148 2152 2153 2156 2157 2160 2165
2176 2177 2184 2185 2187 2188 2193 2198 2201 2202
2203 2205 2207 2208 2209 2210 2212 2213 2220 2221
2222 2225 2237 2254 2261 2264 2268 2277 2279 2285
2286 2287 2288 2289 2297 2305 2306 2308 2314 2315
2316 2317 2319 2320 2326 2327 2328 2329 2337 2339
2340 2341 2342 2345 2346 2348 2351 2353 2354 2355
2357 2365 2366 2367 2388 2391 2394 2398 2410 2413
2414 2415 2416 2420 2421 2431 2440 2444 2467 2474
2475 2477 2478 2488 2489 2491 2495 2497 2498 2502
2507 2508 2509 2511 2512 2514 2515 2519 2520 2521
2522 2524 2526 2531 2535 2537 2538 2540 2543 2548
2550 2551 2552 2563 2565 2572 2584 2586 2587 2589
2591 2593 2595 2598 2607 2608 2609 2610 2616 2617
2628 2633 2637 2638 2639 2640 2652 2659 2661 2662
2666 2667 2668 2674 2675 2677 2678 2680 2681 2684
2685 2686 2687 2688 2691 2700 2701 2702 2710 2711
2720 2750 2753 2754 2755 2768 2774 2777 2790 2791
2792 2793 2794 2798 2799 2801 2808 2811 2826 2829
2830 2833 2834 2835 2836 2837 2839 2865 2866 2875
2879 2880 2881 2885 2904 2906 2908 2913 2924 2925
2926 2933 2934 2936 2940 2941 2944 2954 2957 2960
2961 2963 2976 2977 2978 2981 2991 3001 3009 3010
3026 3031 3054 3057 3058 3059 3063 3064 3068 3070
3071 3077 3080 3081 3082 3083 3084 3108 3113

BEHAVIOUR

SAUGER

20 21 377 409 572 581 645 865 890 1212
2278 2362 2780

WALLEYE

11 20 21 144 176 272 323 377 397 409
533 534 562 563 572 581 597 598 645 763
764 772 799 837 865 890 1005 1203 1212 1269
1279 1313 1442 1478 1479 1483 1497 1626 1696 1762
1783 1804 1824 1901 1922 1988 2068 2095 2106 2124
2128 2239 2278 2284 2362 2434 2435 2437 2462 2484
2485 2436 2544 2545 2622 2739 2761 2762 2780 2781
2782 3067 3085 3094 3116

COMMERCIAL FISHERIES

SAUGER

4 17 58 59 67 68 72 75 79 80
123 154 162 177 234 284 286 332 352 368
374 375 379 389 393 425 426 431 433 434
439 442 476 505 516 524 531 551 601 602
616 617 619 669 670 671 672 720 724 752
819 834 863 867 869 870 970 972 1034 1049
1105 1219 1220 1222 1230 1231 1346 1394 1413 1465
1494 1499 1500 1507 1531 1537 1596 1598 1604 1605
1607 1635 1689 1702 1722 1723 1724 1725 1726 1728
1729 1730 1732 1764 1832 1845 1983 2056 2136 2159

2205 2299 2342 2357 2361 2362 2363 2389 2497 2498
2500 2501 2523 2524 2553 2562 2563 2640 2644 2648
2685 2699 2708 2713 2722 2751 2752 2783 2805 2807
2855 2874 2896 2898 2899 2900 2902 2903 2907 2929
3012 3017 3018 3029 3031 3034

WALLEYE

3 4 5 6 17 45 49 58 59 64
67 68 72 75 79 80 82 84 85 108
118 123 127 132 133 135 154 162 177 227
234 241 254 255 263 267 284 285 286 289
290 332 337 338 352 353 368 370 374 375
379 381 389 390 393 425 426 431 433 434
439 442 445 446 450 453 459 476 477 483
484 485 487 488 490 505 516 523 524 525
530 531 533 551 577 594 596 601 602 604
616 617 619 620 638 652 653 670 671 672
675 697 720 724 752 780 782 819 834 863
867 868 869 870 891 917 932 965 970 972
990 1013 1034 1049 1065 1073 1091 1105 1127 1150
1160 1219 1220 1222 1227 1228 1230 1231 1232 1233
1236 1309 1312 1332 1343 1358 1369 1383 1394 1395
1411 1413 1433 1461 1465 1467 1494 1495 1496 1499
1500 1507 1531 1537 1538 1557 1573 1574 1596 1598
1604 1605 1607 1631 1635 1655 1687 1702 1707 1711
1722 1723 1724 1725 1726 1727 1728 1729 1730 1735
1737 1741 1746 1747 1764 1784 1826 1832 1842 1845
1871 1880 1912 1946 1983 2013 2027 2040 2056 2057
2132 2133 2136 2143 2144 2145 2147 2148 2149 2150
2152 2153 2155 2156 2159 2184 2185 2187 2205 2207
2210 2211 2215 2299 2309 2333 2334 2335 2339 2341
2342 2346 2347 2357 2360 2361 2362 2363 2372 2374
2389 2405 2413 2414 2415 2444 2447 2459 2460 2497
2498 2500 2501 2513 2523 2524 2540 2553 2562 2563
2625 2626 2640 2641 2642 2644 2648 2650 2652 2660
2661 2668 2681 2685 2697 2698 2699 2708 2713 2714
2751 2752 2773 2783 2787 2827 2855 2874 2896 2897
2898 2899 2900 2901 2902 2903 2905 2907 2908 2910
2911 2929 2960 3005 3006 3007 3012 3013 3029 3031
3034 3057 3058 3073 3101 3113

COMMUNITY DYNAMICS

SAUGER

153 168 178 208 229 232 234 283 368 379
393 489 496 496 514 555 559 644 756 758
773 853 909 911 912 969 985 986 1069 1105
1216 1218 1222 1225 1373 1413 1494 1505 1624 1635
1718 1723 1724 1832 1852 1886 1911 1983 2024 2056
2205 2276 2282 2296 2324 2351 2362 2365 2562 2609
2690 2691 2699 2713 2769 2783 2874 2879 2880 2881
2931 2932 2944 3093

WALLEYE

6 31 33 97 102 121 153 158 164 166
168 189 208 224 225 229 231 232 234 242
249 253 283 285 287 288 289 296 341 345
368 379 393 403 411 416 432 440 474 475
476 488 491 492 496 497 513 514 519 527
532 533 534 535 538 548 554 555 559 565
577 598 599 604 614 622 624 629 644 696

738	756	758	773	783	820	823	850	853	855
858	891	909	911	912	926	927	930	931	932
934	935	936	959	969	973	974	986	991	1029
1032	1042	1043	1044	1045	1062	1069	1084	1090	1091
1105	1133	1140	1153	1154	1166	1203	1206	1218	1222
1225	1240	1242	1252	1253	1329	1330	1331	1341	1342
1352	1357	1367	1369	1373	1384	1385	1389	1390	1391
1393	1398	1403	1413	1418	1433	1434	1439	1442	1451
1454	1469	1485	1486	1487	1489	1492	1494	1505	1528
1529	1534	1576	1580	1586	1587	1623	1624	1625	1635
1541	1660	1661	1666	1667	1668	1672	1673	1674	1684
1696	1697	1708	1714	1718	1719	1721	1723	1724	1731
1749	1760	1795	1799	1807	1808	1832	1842	1856	1860
1861	1864	1867	1868	1869	1886	1888	1890	1911	1916
1921	1928	1929	1930	1931	1950	1977	1980	1981	1983
2000	2009	2016	2024	2056	2057	2068	2069	2074	2081
2085	2093	2094	2095	2115	2120	2129	2130	2131	2157
2169	2172	2176	2177	2186	2198	2200	2201	2202	2205
2228	2237	2242	2255	2260	2261	2267	2268	2269	2271
2276	2282	2284	2290	2296	2302	2307	2319	2324	2326
2327	2344	2346	2348	2351	2362	2365	2391	2414	2415
2416	2422	2428	2429	2438	2440	2443	2459	2460	2463
2468	2476	2488	2489	2490	2491	2492	2513	2515	2516
2517	2518	2535	2540	2543	2550	2562	2568	2577	2579
2603	2606	2609	2662	2671	2679	2684	2687	2690	2691
2699	2704	2705	2713	2714	2769	2783	2797	2798	2808
2810	2828	2829	2846	2859	2874	2879	2880	2881	2935
2944	2960	2963	2975	2991	3008	3011	3036	3048	3069
3075	3079	3080	3081	3082	3083	3084	3093		

CREEL CENSUS

SAUGER

14	15	35	137	177	185	275	276	283	286
302	316	349	394	396	435	436	438	439	441
443	476	612	671	758	805	809	810	813	815
816	819	871	890	896	904	905	906	907	909
964	966	987	1067	1087	1115	1288	1375	1394	1413
1465	1543	1725	1832	1881	1899	1900	1904	1970	1983
1984	2037	2043	2045	2055	2070	2088	2136	2205	2240
2329	2354	2355	2407	2523	2524	2532	2551	2553	2607
2609	2691	2715	2716	2717	2718	2733	2754	2778	2805
2824	2870	2877	2879	2880	2881	2887	2944	2971	3018

WALLEYE

1	2	14	15	35	63	64	65	70	87
93	97	100	109	111	112	113	114	115	119
125	126	128	129	130	136	137	138	140	165
167	177	182	183	184	185	219	220	221	222
228	242	243	247	248	262	275	276	278	279
280	283	286	289	292	296	298	302	310	311
312	313	318	337	338	342	349	351	354	355
356	358	361	262	364	373	394	396	410	411
417	418	435	436	438	439	441	443	444	447
448	449	450	451	452	453	468	476	479	485
493	495	517	518	520	533	537	547	549	566
567	568	577	578	580	591	592	612	618	624
627	629	631	647	648	649	654	655	660	665
666	668	671	700	701	702	703	704	705	706
707	713	714	715	734	736	737	739	757	758
766	768	769	770	771	779	782	794	798	801
802	803	805	809	810	813	815	816	819	851

852 857 871 872 873 877 878 890 892 893
895 896 897 898 899 900 901 903 904 905
906 907 909 932 934 950 955 957 959 961
962 964 966 976 977 978 981 987 1009 1010
1029 1030 1036 1037 1040 1041 1046 1047 1067 1078
1085 1086 1087 1088 1089 1091 1104 1106 1108 1109
1110 1120 1121 1122 1123 1124 1136 1137 1140 1141
1142 1144 1145 1146 1147 1162 1170 1174 1177 1179
1180 1182 1183 1184 1185 1186 1188 1189 1191 1192
1194 1196 1207 1229 1234 1239 1243 1244 1255 1267
1268 1273 1287 1288 1313 1331 1332 1333 1334 1335
1336 1337 1338 1339 1342 1347 1348 1350 1359 1360
1361 1365 1368 1375 1376 1377 1378 1380 1388 1389
1392 1393 1394 1399 1400 1401 1408 1409 1410 1413
1432 1433 1434 1435 1436 1437 1439 1443 1455 1458
1461 1463 1465 1467 1468 1485 1486 1488 1489 1502
1503 1510 1522 1524 1534 1539 1540 1541 1542 1543
1546 1553 1559 1560 1561 1568 1571 1580 1581 1582
1587 1588 1589 1591 1615 1616 1617 1618 1620 1636
1637 1653 1656 1657 1658 1659 1662 1663 1664 1665
1670 1671 1675 1695 1709 1710 1711 1712 1725 1734
1736 1737 1740 1741 1750 1761 1781 1785 1790 1791
1792 1793 1795 1798 1820 1825 1828 1829 1830 1832
1838 1839 1840 1842 1846 1848 1854 1859 1860 1861
1864 1865 1866 1881 1888 1889 1890 1891 1899 1900
1901 1902 1903 1904 1918 1932 1933 1937 1966 1970
1975 1978 1980 1983 1984 1985 1995 1997 2000 2005
2006 2007 2008 2020 2021 2022 2027 2029 2037 2042
2043 2045 2055 2070 2073 2088 2092 2119 2130 2133
2136 2138 2139 2140 2141 2142 2143 2144 2145 2146
2147 2148 2150 2151 2152 2153 2155 2156 2157 2160
2167 2169 2174 2176 2188 2193 2196 2201 2203 2204
2205 2206 2207 2208 2210 2211 2219 2220 2229 2240
2241 2253 2254 2258 2259 2260 2264 2269 2270 2274
2304 2308 2318 2319 2320 2329 2340 2354 2355 2366
2367 2376 2381 2395 2396 2397 2398 2404 2407 2413
2414 2415 2423 2424 2426 2430 2431 2449 2452 2454
2455 2460 2466 2473 2474 2477 2479 2480 2481 2493
2494 2496 2499 2506 2508 2512 2515 2517 2518 2523
2524 2532 2540 2546 2547 2548 2549 2550 2551 2552
2553 2570 2584 2587 2593 2594 2595 2597 2598 2599
2607 2609 2611 2614 2674 2675 2678 2691 2693 2694
2695 2715 2716 2717 2718 2720 2729 2733 2734 2742
2749 2750 2754 2759 2764 2765 2777 2790 2791 2792
2793 2794 2795 2797 2802 2803 2804 2809 2814 2816
2817 2824 2826 2832 2833 2834 2835 2836 2837 2838
2839 2847 2852 2853 2869 2870 2871 2875 2877 2879
2880 2881 2887 2891 2911 2923 2924 2925 2926 2927
2928 2933 2935 2944 2956 2957 2971 2975 2982 2983
2988 2990 2999 3008 3009 3010 3011 3016 3020 3039
3054 3057 3058 3063 3064 3088 3091 3107 3108 3111
3112 3113

ECOLOGY

SAUGER

4 9 19 61 123 194 195 196 211 212
213 214 229 302 343 344 391 409 420 428
429 611 642 643 645 669 670 672 729 751
773 809 810 889 909 915 953 960 984 1000
1049 1055 1092 1125 1157 1158 1237 1257 1375 1494
1505 1519 1520 1532 1558 1569 1590 1599 1600 1602
1614 1624 1769 1773 1805 1852 1858 1962 2033 2034

2044 2047 2049 2050 2054 2055 2089 2104 2137 2216
2234 2240 2250 2288 2296 2362 2363 2377 2406 2408
2500 2527 2605 2607 2608 2640 2669 2672 2685 2763
2785 2906 2909 2912 2940 3000 3093 3110 3114

WALLEYE

4 9 19 28 30 51 61 74 82 83
84 88 92 94 95 96 121 123 152 156
161 176 180 193 194 195 196 202 211 212
213 214 215 227 229 231 25[illegible] 257 266 279
288 291 292 302 303 323 334 343 344 391
392 409 416 420 424 428 465 466 469 471
472 483 491 528 532 533 535 536 539 565
582 588 611 629 642 643 645 646 650 659
663 670 672 678 681 687 727 729 733 740
746 751 767 773 774 783 785 793 799 809
810 846 847 848 849 854 883 889 909 915
916 924 935 953 960 962 973 975 984 995
997 999 1000 1049 1055 1073 1083 1092 1097 1104
1106 1113 1116 1119 1125 1152 1153 1154 1157 1165
1166 1168 1235 1237 1242 1257 1262 1269 1278 1280
1281 1302 1306 1314 1316 1318 1325 1330 1331 1354
1375 1385 1398 1407 1417 1451 1454 1469 1475 1484
1493 1494 1497 1505 1514 1515 1516 1519 1520 1521
1524 1532 1538 1558 1565 1569 1577 1586 1599 1600
1602 1603 1606 1613 1614 1624 1646 1707 1719 1746
1747 1749 1762 1769 1770 1784 1804 1805 1807 1809
1812 1827 1837 1855 1858 1888 1906 1910 1913 1916
1948 1962 1974 1980 1990 1991 1998 2002 2004 2034
2044 2049 2050 2054 2055 2059 2075 2086 2089 2093
2095 2104 2105 2106 2116 2122 2124 2128 2133 2137
2164 2185 2194 2195 2197 2198 2199 2201 2202 2207
2209 2210 2216 2234 2239 2240 2241 2250 2254 2279
2281 2288 2289 2296 2326 2331 2332 2333 2334 2337
2343 2345 2346 2348 2349 2352 2353 2362 2363 2364
2377 2383 2391 2406 2408 2410 2428 2429 2438 2444
2461 2463 2468 2471 2484 2485 2491 2492 2495 2500
2507 2510 2513 2516 2535 2538 2540 2545 2564 2582
2591 2593 2603 2605 2607 2608 2616 2617 2621 2622
2632 2640 2653 2660 2662 2667 2669 2672 2679 2685
2705 2720 2723 2732 2738 2756 2757 2758 2766 2768
2781 2785 2810 2827 2843 2851 2906 2908 2912 2916
2930 2935 2940 2954 2976 2980 3000 3011 3026 3036
3048 3073 3093 3094 3096 3110

EMBRYOLOGY

SAUGER

168 1080

WALLEYE

24 81 168 181 533 597 784 1080 1083 1149
1259 1518 1536 1767 1822 1833 1834 1835 1986 2121
2368 2534 2621 3015 3075 3101

FISHING GEAR

SAUGER

17 75 208 282 286 375 376 377 379 388
389 393 394 396 791 890 969 1217 1220 1222
1284 1470 1537 1724 1725 1726 1728 1729 1732 1898
2052 2205 2377 2551 2563 2644 2648 2708 2807 2855
2896 2898 2903 2937 3029

WALLEYE

17 75 127 158 164 186 208 255 263 282
285 286 321 370 372 375 376 377 379 388
389 393 394 396 397 410 423 509 510 533
576 659 782 890 921 969 979 989 1065 1083
1091 1111 1112 1161 1200 1217 1220 1222 1284 1370
1371 1386 1470 1495 1510 1537 1554 1567 1573 1584
1585 1655 1687 1724 1725 1726 1727 1728 1729 1821
1841 1869 1945 1994 2009 2010 2052 2082 2084 2132
2157 2205 2213 2267 2289 2364 2371 2377 2392 2393
2413 2414 2551 2563 2567 2588 2594 2644 2648 2668
2678 2705 2708 2855 2896 2897 2898 2903 3006 3029
3045 3047

FISHWAYS

SAUGER

89 2562

WALLEYE

89 259 454 533 711 1134 1138 1853 2453 2555
2562 2728 2984 3021 3095

FOOD STUDIES

SAUGER

4 154 159 194 196 379 435 514 545 559
609 611 644 669 791 835 890 909 910 911
912 914 918 972 985 986 1069 1213 1284 1319
1373 1375 1394 1505 1595 1605 1610 1634 1718 1832
1836 1852 1911 1924 1983 2043 2044 2045 2047 2165
2216 2245 2275 2276 2282 2288 2342 2351 2357 2362
2365 2402 2640 2685 2696 2780 2783 2874 2879 2880
2881 2893 2931 2932 2941 2944

WALLEYE

1 4 33 83 102 121 151 154 155 159
160 179 194 196 222 224 227 233 244 245
246 247 248 249 250 252 271 289 322 333
340 341 348 363 370 379 403 411 435 440
453 467 474 475 490 503 514 515 533 542
545 547 556 559 562 563 564 570 575 577
597 598 599 604 609 611 614 623 626 629
641 644 681 682 687 728 763 793 799 823
835 857 858 890 909 910 911 912 914 918
920 924 926 927 931 934 936 938 955 972
980 986 1005 1016 1027 1032 1042 1043 1044 1045
1048 1059 1061 1069 1090 1093 1126 1201 1202 1204
1206 1209 1211 1213 1238 1252 1253 1256 1260 1275

1277 1284 1315 1316 1319 1328 1329 1331 1341 1352
1366 1367 1372 1373 1375 1385 1389 1390 1391 1393
1394 1410 1418 1440 1442 1443 1451 1475 1476 1477
1483 1492 1505 1506 1508 1515 1526 1527 1529 1533
1538 1545 1575 1576 1595 1605 1610 1622 1634 1646
1683 1685 1688 1696 1718 1719 1720 1721 1739 1757
1759 1762 1770 1789 1795 1800 1803 1806 1807 1808
1819 1826 1832 1837 1842 1856 1863 1877 1879 1887
1890 1892 1901 1911 1915 1916 1924 1928 1931 1932
1933 1949 1967 1968 1973 1974 1983 2016 2019 2028
2030 2031 2043 2044 2045 2068 2069 2074 2094 2108
2120 2124 2127 2158 2165 2172 2186 2190 2191 2195
2197 2198 2199 2201 2202 2203 2209 2210 2214 2216
2218 2242 2254 2272 2273 2275 2276 2282 2287 2288
2289 2294 2307 2308 2323 2326 2334 2337 2338 2339
2341 2342 2345 2346 2351 2357 2362 2365 2391 2399
2402 2410 2414 2415 2431 2444 2475 2478 2509 2511
2515 2522 2565 2568 2572 2578 2579 2593 2598 2618
2619 2620 2640 2654 2662 2666 2667 2680 2685 2696
2700 2701 2720 2774 2779 2780 2781 2782 2783 2801
2813 2830 2842 2874 2879 2880 2881 2930 2941 2944
2954 2963 2991 3037 3069 3079

GENETICS

SAUGER

394 396 506 1173 1375 1702 2046 2053 2361 2362
2753

WALLEYE

190 223 244 260 261 281 394 396 506 507
508 533 534 615 625 1173 1291 1293 1351 1375
1431 1578 1702 1801 1802 2025 2026 2046 2053 2122
2361 2362 2374 2401 2684 2753 2876 2915 2962 3038

GEOGRAPHICAL DISTRIBUTION

SAUGER

13 26 46 73 203 300 378 408 422 545
546 584 642 643 645 691 716 725 749 759
760 761 806 825 826 829 830 831 832 833
840 841 843 845 865 915 940 941 944 960
1038 1068 1092 1100 1117 1118 1157 1163 1205 1210
1226 1289 1290 1294 1297 1303 1355 1423 1430 1490
1513 1611 1642 1682 1704 1725 1831 1872 1873 1878
1963 2035 2036 2097 2162 2216 2223 2224 2235 2336
2358 2436 2465 2574 2580 2612 2615 2629 2631 2670
2685 2709 2771 2776 2822 2864 2878 2912 3022 3052
3089 3106

WALLEYE

13 26 46 54 73 201 203 205 224 300
305 318 337 367 378 408 422 465 508 517
545 546 640 642 643 645 691 716 717 719
725 749 759 760 761 825 826 827 829 830
831 832 833 837 839 840 841 842 843 844
845 862 865 915 939 940 941 942 943 944
945 946 960 963 995 1038 1051 1068 1092 1100
1116 1117 1118 1119 1130 1135 1157 1163 1164 1168

1205 1210 1226 1235 1278 1294 1297 1303 1344 1396
1398 1422 1423 1442 1444 1448 1449 1456 1462 1490
1512 1513 1574 1608 1682 1690 1693 1694 1697 1704
1705 1725 1738 1752 1776 1777 1831 1872 1873 1874
1878 1901 1906 1907 1909 1947 1963 1964 2025 2035
2036 2096 2097 2106 2109 2162 2171 2178 2179 2180
2216 2224 2256 2257 2300 2301 2303 2310 2312 2313
2315 2326 2336 2337 2358 2378 2386 2436 2465 2483
2503 2504 2510 2540 2556 2569 2574 2580 2622 2629
2631 2670 2673 2685 2706 2707 2771 2818 2822 2831
2848 2849 2850 2856 2860 2863 2864 2878 2895 2910
2912 3002 3014 3022 3041 3052 3089 3098 3102

HABITAT DEGRADATION

SAUGER

32 39 79 214 302 314 389 393 420 428
439 616 617 773 953 982 1020 1022 1023 1058
1087 1216 1519 1520 1558 1590 1634 1635 1725 1730
1744 1814 1844 2041 2056 2324 2357 2362 2363 2377
2394 2501 2505 2523 2524 2627 2683 2685 2736 2898
2906 3034 3077

WALLEYE

32 39 79 84 85 117 134 161 163 169
187 205 214 215 268 302 314 347 370 389
393 419 420 428 439 454 498 501 528 533
548 554 580 582 616 617 657 723 753 773
854 874 916 917 948 953 974 993 1020 1021
1022 1023 1024 1058 1081 1087 1108 1110 1150 1152
1175 1241 1259 1262 1318 1327 1328 1330 1345 1395
1397 1414 1415 1456 1467 1474 1509 1516 1517 1518
1519 1520 1548 1558 1603 1631 1634 1635 1651 1652
1703 1725 1730 1744 1748 1751 1765 1772 1775 1783
1800 1814 1815 1823 1837 1844 1847 1855 1874 1948
2013 2041 2056 2133 2169 2189 2294 2305 2311 2324
2357 2362 2363 2373 2374 2377 2379 2394 2428 2459
2460 2482 2487 2501 2505 2513 2523 2524 2540 2571
2627 2651 2653 2655 2656 2657 2658 2659 2663 2666
2678 2679 2685 2784 2789 2892 2894 2898 2906 2942
2991 3034 3035 3036 3077 3099

HABITAT IMPROVEMENT

SAUGER

89 232 954 1702 2823 3000

WALLEYE

1 12 89 120 232 533 646 659 663 709
933 954 1007 1088 1272 1393 1522 1549 1550 1556
1580 1702 1739 1742 1849 1855 1885 1992 2004 2064
2120 2204 2321 2390 2416 2427 2603 2692 2703 2720
2766 2827 2854 2981 2982 3000 3021

IMPOUNDMENTS

SAUGER

61 137 139 178 208 230 232 234 235 302
343 408 425 429 436 496 531 642 643 644
754 775 777 805 887 889 890 907 908 953
954 985 987 988 1092 1102 1115 1167 1213 1223
1237 1356 1405 1406 1450 1610 1836 1886 1970 1971
2037 2038 2041 2043 2044 2045 2048 2050 2051 2054
2055 2183 2192 2235 2248 2249 2250 2314 2394 2527
2607 2608 2609 2610 2633 2634 2690 2691 2726 2733
2753 2754 2755 2775 2778 2805 2806 2807 2823 2824
2879 2880 2881 2934 2937 2938 2940 2941 3114

WALLEYE

1 11 61 74 87 93 136 137 139 144
167 207 208 222 228 231 232 234 235 272
273 291 292 298 302 303 319 343 364 408
425 430 436 496 520 531 533 538 539 575
591 642 643 644 646 660 708 711 754 767
775 776 785 792 793 794 805 847 849 850
856 857 875 876 887 889 890 900 907 908
953 954 955 956 958 959 987 988 997 998
999 1029 1030 1042 1043 1044 1045 1078 1081 1082
1083 1084 1088 1092 1101 1122 1123 1124 1133 1140
1151 1171 1174 1201 1204 1206 1213 1223 1224 1237
1240 1254 1261 1264 1348 1353 1354 1365 1369 1371
1372 1419 1443 1450 1451 1454 1455 1510 1545 1546
1564 1571 1579 1580 1609 1610 1646 1679 1680 1681
1689 1708 1714 1739 1754 1783 1795 1807 1813 1816
1819 1856 1882 1885 1886 1887 1892 1931 1932 1933
1948 1956 1965 1970 1971 1975 1976 1977 1980 1985
2015 2017 2018 2019 2026 2037 2038 2039 2041 2043
2044 2045 2050 2051 2054 2055 2073 2105 2112 2169
2172 2176 2183 2188 2192 2196 2197 2198 2199 2201
2202 2241 2242 2248 2250 2260 2262 2263 2279 2307
2308 2314 2316 2317 2328 2349 2352 2353 2356 2384
2394 2397 2398 2410 2431 2475 2492 2526 2537 2538
2572 2607 2608 2609 2610 2633 2637 2638 2639 2680
2690 2691 2692 2703 2720 2725 2726 2727 2733 2734
2741 2753 2754 2755 2757 2760 2777 2784 2797 2820
2824 2861 2862 2865 2866 2875 2879 2880 2881 2934
2938 2940 2941 2975 2981 2990 3019 3020 3023 3030
3040 3043 3044 3045 3046 3050 3051

INTRODUCTIONS

SAUGER

149 234 306 581 720 750 754 941 944 1050
1055 1883 1924 2351 2624

WALLEYE

8 50 52 55 76 78 146 149 167 188
192 193 217 234 249 264 265 277 288 306
308 311 319 335 421 440 461 467 500 522
533 536 556 575 581 582 589 720 750 754
785 856 857 941 944 946 955 958 999 1035
1048 1050 1052 1053 1055 1056 1082 1085 1086 1103
1126 1151 1261 1296 1325 1353 1369 1372 1509 1510
1544 1545 1586 1612 1697 1714 1715 1766 1782 1807

1816 1883 1917 1975 1987 2065 2066 2087 2110 2168
2188 2193 2262 2263 2264 2265 2281 2332 2348 2349
2351 2352 2410 2531 2538 2559 2600 2601 2604 2623
2624 2637 2638 2641 2643 2647 2756 2767 2768 2796
2797 2825 2975 2985 3020 3027 3115

LIFE HISTORY

SAUGER

206 346 426 718 750 914 918 960 985 1034
1131 1212 1245 1532 1570 1632 1858 2034 2137 2234
2362 2576 2624 2630 2722 2788 2858 3031

WALLEYE

206 224 227 346 367 411 426 461 509 510
533 626 651 659 718 750 776 799 824 828
894 900 914 918 933 960 973 1034 1082 1083
1131 1176 1212 1245 1389 1532 1536 1555 1570 1593
1594 1632 1648 1688 1739 1746 1747 1762 1807 1826
1835 1856 1858 1865 1925 2012 2019 2034 2068 2075
2130 2137 2234 2262 2263 2264 2323 2340 2362 2409
2410 2428 2471 2483 2576 2597 2623 2624 2630 2788
2858 2865 2985 3019 3031 3060 3061

MARKING

SAUGER

274 275 276 283 286 352 435 436 476 571
610 674 756 777 805 810 812 904 905 906
967 1105 1308 1310 1763 1773 1780 1969 1970 1971
2041 2048 2089 2136 2205 2239 2240 2351 2394 2432
2524 2527 2533 2607 2609 2610 2824 28792880 2881 2986
3031 3097

WALLEYE

34 70 109 121 144 167 171 216 274 275
276 283 286 289 298 318 350 352 353 365
373 435 436 453 476 481 486 494 517 527
533 558 575 590 591 592 593 594 595 596
603 610 613 660 664 674 689 707 708 756
765 800 805 810 812 866 904 905 906 922
957 959 967 1006 1029 1057 1059 1091 1101 1104
1105 1106 1107 1122 1174 1238 1239 1240 1308 1310
1340 1362 1364 1365 1379 1392 1433 1436 1443 1460
1467 1482 1554 1587 1636 1669 1673 1674 1676 1677
1710 1712 1756 1759 1760 1763 1772 1802 1821 1824
1864 1865 1866 1918 1922 1939 1941 1950 1969 1970
1971 1972 1985 2012 2018 2023 2041 2089 2118 2119
2127 2128 2136 2157 2160 2182 2187 2193 2205 2207
2209 2210 2211 2239 2240 2254 2268 2271 2279 2284
2285 2305 2316 2317 2319 2340 2351 2394 2397 2419
2420 2421 2422 2425 2432 2433 2434 2440 2446 2451
2456 2459 2460 2477 2490 2492 2512 2519 2520 2521
2524 2526 2533 2542 2558 2561 2566 2607 2609 2610
2661 2678 2710 2711 2723 2728 2743 2744 2745 2746
2749 2761 2762 2820 2821 2824 2859 2879 2880 2881
2911 2933 2967 2969 2970 2986 3026 3031 3057 3058
3067 3068 3076 3080 3085 3094 3109 3113

MORPHOLOGY

SAUGER

150 195 529 543 545 574 581 637 741 859
884 885 886 918 1018 1301 1304 1421 1425 1429
1570 1592 1640 1875 1883 1962 2034 2046 2161 2170
2288 2575 2630 2635 2636 2772 2857 2858 2884

WALLEYE

76 150 191 195 209 210 325 413 526 529
533 543 545 560 574 581 597 637 726 741
784 836 859 886 918 1246 1301 1304 1351 1421
1425 1429 1453 1491 1521 1544 1570 1640 1758 1767
1783 1813 1833 1875 1883 1938 1962 2034 2046 2080
2090 2161 2170 2277 2288 2368 2400 2401 2575 2590
2630 2635 2636 2712 2737 2772 2857 2858 2884 2904
3062 3116

MORTALITY

SAUGER

10 61 276 314 436 514 617 637 695 775
1031 1080 1092 1216 1222 1257 1373 1375 1599 1632
1718 1722 1723 1724 1726 1728 1729 1730 1886 2047
2051 2205 2365 2387 2432 2551 2669 2685 2824 2899
2938 3077 3097

WALLEYE

10 33 51 57 61 83 100 101 109 134
161 167 180 193 225 226 242 247 248 249
253 254 276 288 301 314 318 320 363 398
402 436 440 453 469 471 472 474 482 494
514 527 533 536 540 542 547 549 579 617
621 627 637 663 689 695 696 707 712 755
775 850 858 891 902 913 925 927 930 934
935 975 997 1031 1057 1062 1080 1091 1092 1166
1201 1215 1222 1238 1239 1241 1248 1254 1257 1258
1259 1260 1262 1291 1309 1318 1331 1363 1365 1373
1375 1379 1382 1388 1389 1392 1393 1433 1436 1437
1442 1451 1467 1480 1482 1486 1488 1493 1501 1517
1518 1548 1554 1555 1581 1582 1586 1587 1599 1609
1623 1632 1641 1648 1679 1684 1685 1696 1703 1706
1714 1718 1722 1723 1724 1726 1727 1728 1729 1730
1748 1759 1760 1775 1822 1862 1863 1864 1866 1886
1932 1933 1935 1936 1950 1980 1981 1985 1995 2004
2013 2051 2059 2063 2068 2074 2086 2093 2118 2124
2132 2194 2205 2206 2213 2237 2254 2261 2268 2270
2271 2279 2289 2291 2364 2365 2384 2416 2428 2432
2440 2457 2460 2477 2490 2509 2511 2514 2515 2517
2519 2521 2534 2537 2550 2551 2552 2577 2581 2587
2589 2598 2616 2617 2621 2637 2651 2653 2655 2656
2658 2666 2668 2669 2681 2685 2773 2789 2808 2824
2827 2851 2892 2899 2901 2908 2911 2916 2933 2938
2961 2968 2969 2970 3019 3020 3033 3057 3058 3075
3077 3080 3086 3095 3096

MOVEMENT AND MIGRATIONS

SAUGER

35 283 286 315 422 439 476 610 805 810
967 1167 1308 1310 2351 2394 2527 2551 2685 2879
2880 2881

WALLEYE

35 158 167 176 216 225 257 272 283 286
311 315 422 439 476 610 652 707 805 810
851 967 973 1082 1101 1104 1106 1242 1269 1308
1310 1312 1331 1385 1392 1417 1554 1636 1710 1739
1756 1801 1824 1856 1863 1864 1866 2018 2019 2086
2127 2133 2160 2187 2289 2315 2316 2317 2340 2351
2394 2397 2410 2434 2446 2460 2475 2492 2512 2519
2550 2551 2572 2685 2701 2710 2741 2843 2879 2880
2881 2989 3059

PATHOLOGY

SAUGER

4 29 159 173 174 175 269 387 435 476
553 633 634 1250 1251 1323 1627 1634 1691 1755
2067 2078 2079 2181 2342 2369 2917 2921 2944 2964
3003 3053 3074 3100 3114

WALLEYE

4 16 27 29 34 98 159 172 173 174
175 197 236 237 268 269 289 326 339 359
370 387 411 435 476 533 534 552 553 586
587 597 622 633 634 661 688 707 727 730
731 732 796 821 822 879 880 881 882 883
1019 1093 1104 1106 1107 1228 1247 1249 1250 1251
1264 1266 1322 1323 1324 1387 1431 1467 1471 1472
1473 1530 1545 1562 1619 1621 1622 1627 1629 1634
1645 1669 1676 1691 1733 1754 1755 1768 1801 1802
1810 1811 1884 1905 1908 2014 2067 2077 2078 2079
2083 2113 2115 2166 2181 2217 2226 2238 2243 2244
2333 2334 2337 2339 2342 2350 2369 2380 2382 2385
2414 2415 2448 2457 2539 2557 2584 2606 2653 2731
2747 2770 2786 2812 2841 2888 2889 2890 2917 2918
2919 2920 2921 2922 2944 2945 2946 2947 2948 2949
2950 2951 2952 2953 2955 2964 2965 2966 2968 2972
2973 2992 2993 2994 2995 2996 2998 3003 3053 3057
3058 3065 3066 3074 3080 3086 3090 3100 3101 3103
3104 3105 3113

PHYSIOLOGY

SAUGER

19 20 21 314 328 329 607 645 865 1080
1632 1924 1962 2252 2377 2780

WALLEYE

19 20 21 24 25 106 176 225 260 261
314 327 328 329 330 533 608 630 645 667
692 727 753 865 993 996 1077 1080 1248 1258
1265 1280 1286 1320 1321 1329 1349 1441 1471 1547

1632 1654 1758 1775 1783 1823 1835 1847 1925 1951
1952 1962 1986 1988 2004 2106 2175 2252 2293 2348
2377 2486 2529 2579 2656 2659 2730 2780 2782 2800
2908 3056 3086 3095

POPULATION STUDIES

SAUGER

123 137 139 208 229 232 234 235 275 276
283 284 286 332 357 429 439 476 496 505
511 610 617 632 729 756 775 788 791 805
819 853 861 890 907 908 909 937 953 954
968 969 971 972 982 983 984 985 988 1095
1223 1283 1284 1394 1413 1537 1558 1569 1599 1600
1610 1624 1723 1724 1725 1728 1729 1730 1732 1763
1773 1886 1904 1969 1970 1971 1983 1999 2001 2038
2039 2044 2045 2047 2048 2051 2052 2054 2055 2056
2134 2159 2192 2205 2248 2249 2324 2362 2365 2387
2394 2445 2524 2551 2553 2602 2607 2608 2609 2610
2613 2627 2685 2690 2691 2713 2726 2775 2807 2824
2879 2880 2881 2906 2936 2938 2940 2944 3000 3001
3093

WALLEYE

8 30 31 33 37 38 87 93 116 118
121 123 136 137 138 139 156 157 158 164
166 167 189 207 208 228 229 231 232 233
234 235 242 243 244 253 254 255 257 270
275 276 279 283 284 285 286 288 289 290
291 296 303 304 318 321 332 357 363 369
370 381 398 402 403 412 415 416 439 453
468 475 476 477 486 487 496 503 505 511
512 520 532 533 547 549 558 577 579 590
610 617 627 629 632 651 653 660 675 687
689 707 729 738 756 775 781 788 792 794
800 805 819 850 852 853 857 861 864 876
890 891 907 908 909 921 923 925 927 928
930 932 933 936 937 953 954 955 956 957
959 962 968 969 971 972 973 974 975 983
984 988 995 1032 1041 1057 1062 1088 1093 1095
1098 1104 1107 1108 1110 1120 1132 1140 1160 1161
1168 1180 1181 1187 1190 1193 1195 1197 1198 1223
1224 1227 1239 1240 1263 1274 1276 1282 1284 1305
1307 1327 1329 1331 1342 1350 1360 1362 1364 1369
1371 1372 1378 1380 1383 1384 1385 1386 1388 1389
1390 1391 1393 1394 1404 1410 1413 1414 1418 1433
1438 1443 1452 1453 1454 1464 1469 1475 1482 1483
1484 1486 1487 1488 1489 1501 1510 1511 1521 1522
1523 1524 1534 1537 1554 1555 1558 1566 1567 1569
1578 1580 1581 1582 1585 1586 1587 1599 1600 1610
1615 1620 1623 1624 1633 1636 1646 1647 1660 1661
1666 1667 1668 1672 1673 1674 1676 1698 1703 1708
1710 1711 1712 1719 1721 1723 1724 1725 1727 1728
1729 1730 1736 1739 1741 1760 1763 1795 1798 1799
1801 1802 1807 1821 1842 1856 1863 1864 1865 1866
1867 1868 1869 1876 1877 1882 1885 1886 1891 1892
1901 1904 1920 1930 1931 1932 1933 1934 1935 1939
1941 1943 1945 1950 1969 1970 1971 1974 1976 1977
1980 1983 1985 1992 1995 1999 2001 2009 2011 2012
2037 2038 2039 2044 2045 2051 2052 2054 2055 2056
2057 2061 2076 2086 2087 2093 2118 2119 2128 2132
2133 2134 2135 2144 2149 2150 2155 2157 2159 2176

2177 2182 2184 2192 2193 2197 2199 2201 2202 2205
2207 2209 2210 2211 2212 2213 2227 2228 2232 2248
2254 2260 2261 2267 2268 2271 2279 2285 2289 2305
2307 2308 2309 2315 2319 2320 2324 2331 2339 2340
2344 2345 2359 2362 2364 2365 2366 2388 2391 2394
2395 2396 2405 2410 2414 2419 2420 2422 2426 2427
2430 2431 2440 2444 2445 2446 2448 2456 2459 2460
2468 2470 2472 2477 2478 2488 2489 2490 2491 2495
2508 2516 2518 2524 2526 2535 2540 2543 2548 2551
2552 2553 2554 2558 2560 2565 2584 2585 2587 2588
2591 2592 2593 2594 2595 2596 2597 2602 2607 2608
2609 2610 2611 2613 2616 2617 2627 2632 2638 2652
2660 2668 2678 2681 2684 2685 2690 2691 2704 2713
2720 2723 2725 2726 2727 2749 2777 2781 2784 2798
2801 2820 2824 2826 2827 2829 2843 2859 2879 2880
2881 2906 2908 2911 2923 2933 2936 2938 2940 2944
2960 2961 2963 2967 2974 2975 2976 2978 2979 2981
2982 2989 3000 3001 3004 3024 3025 3026 3040 3042
3043 3044 3045 3046 3047 3049 3050 3051 3054 3055
3057 3058 3059 3060 3061 3072 3073 3079 3082 3081
3083 3084 3093

PRODUCTIVITY

SAUGER

137 213 389 394 396 399 476 480 673 695
758 987 1413 1805 2043 2205 2342 2389 2497 2498
2501 2523 2608 2610 2685 2887 2906 2941

WALLEYE

6 33 36 60 137 198 199 213 225 243
247 248 249 288 290 334 389 394 396 399
406 412 449 450 465 469 471 472 476 480
483 493 530 533 534 535 547 548 554 579
605 618 622 636 652 673 683 695 758 850
925 930 935 987 1057 1059 1084 1097 1140 1165
1168 1253 1357 1378 1413 1480 1482 1483 1486 1535
1536 1538 1571 1580 1586 1631 1678 1684 1696 1701
1721 1770 1805 1821 1841 1862 1888 1895 1919 1921
1932 1933 1985 1990 1991 1993 1998 2002 2043 2114
2205 2213 2241 2261 2263 2264 2335 2341 2342 2346
2366 2389 2458 2464 2494 2497 2498 2501 2511 2514
2515 2523 2565 2584 2587 2595 2608 2610 2616 2617
2652 2662 2678 2685 2735 2749 2773 2784 2808 2829
2887 2906 2941 2954 2963 2988 3048 3073 3096

PROPAGATION

SAUGER

4 90 194 695 750 918 1105 1427 1531 1601
1607 1632 1702 1989 2053 2724 2874 2899 3028

WALLEYE

4 23 40 41 42 43 44 45 47 48
53 55 57 81 90 91143 169 170 179 190
194 197 200 226 227 245 246 250 251 252
258 267 320 324 333 336 348 363 455 457
458 461 462 463 467 469 470 471 472 473
499 500 502 521 533 541 542 561 562 563

600 621 624 676 677 679 680 684 685 686
692 693 694 695 710 722 750 762 796 888
901 918 994 1008 1012 1016 1028 1063 1079 1094
1105 1172 1201 1202 1227 1260 1271 1285 1311 1312
1315 1321 1326 1412 1416 1427 1487 1506 1522 1531
1551 1552 1583 1601 1607 1628 1630 1632 1683 1684
1685 1686 1702 1706 1707 1713 1743 1745 1753 1759
1787 1789 1794 1796 1797 1801 1802 1817 1870 1879
1894 1895 1917 1936 1951 1952 1965 1979 1989 1990
1991 1993 1996 1998 2003 2015 2030 2031 2032 2053
2058 2059 2060 2071 2072 2091 2101 2102 2103 2122
2123 2126 2163 2230 2231 2251 2266 2292 2293 2298
2320 2322 2375 2411 2417 2437 2439 2509 2529 2534
2572 2577 2646 2649 2650 2662 2686 2687 2688 2719
2724 2747 2767 2774 2815 2819 2820 2844 2845 2846
2872 2873 2874 2899 2908 2958 2959 3015 3028 3033
3037 3038 3092

REGULATIONS

SAUGER

72 75 77 379 1105 1222 2136 2205

WALLEYE

72 75 77 87 93 114 243 304 311 379
493 533 573 618 902 933 934 1029 1030 1105
1140 1168 1222 1388 1438 1486 1489 1504 1522 1523
1620 1737 1985 2073 2087 2136 2143 2145 2147 2148
2150 2153 2155 2156 2205 2206 2356 2364 2376 2440
2514 2525 2584 2587 2598 2678 2988

SAMPLING METHODS

SAUGER

137 139 208 376 427 437 611 673 777 807
811 818 887 953 970 1217 1230 1237 1722 1850
2104 2235 2245 2246 2250 2278 2450 2634 2754 2775
2806 2893 2936 2937 2941

WALLEYE

1 8 30 34 99 118 131 137 138 139
156 186 208 291 303 372 376 410 427 437
533 594 611 659 673 687 699 707 742 747
792 797 807 811 836 837 838 887 922 928
953 970 979 989 997 998 999 1017 1148 1155
1156 1200 1217 1224 1230 1235 1237 1278 1371 1402
1404 1452 1453 1516 1521 1554 1555 1711 1722 1731
1762 1770 1771 1850 1851 1976 1994 2004 2062 2076
2082 2084 2104 2116 2250 2278 2285 2320 2337 2364
2372 2390 2392 2393 2427 2429 2450 2470 2471 2567
2594 2754 2784 2840 2865 2936 2941 2976 2978 2979
3049 3055 3056 3060 3061 3069 3071 3078 3079 3099

SOCIO-ECONOMICS OF FISHERIES

SAUGER

4 379 476 612 758 1725 2136 2501

WALLEYE

3 4 5 114 241 379 476 485 612 758
891 1060 1332 1433 1582 1725 1786 2027 2136 2481
2480 2501 2734 2882 2997

SPAWNING STUDIES

SAUGER

4 22 154 168 194 195 196 208 229 232
283 496 504 545 551 581 606 617 669 754
775 817 904 905 906 909 918 953 954 983
984 985 988 992 1034 1055 1080 1092 1105 1159
1223 1257 1394 1427 1450 1499 1601 1632 1724 1725
1726 1728 1729 1730 1769 1971 1983 2037 2038 2047
2048 2049 2050 2051 2055 2089 2134 2159 2240 2280
2288 2351 2362 2365 2609 2633 2669 2685 2690 2691
2716 2724 2726 2824 2874 2879 2880 2881 2913 2939
2944

WALLEYE

4 22 34 56 70 83 86 116 120 121
122 134 136 154 161 168 194 195 196 208
210 224 226 229 231 232 243 255 272 281
283 289 299 324 331 334 371 380 411 453
454 456 458 477 496 503 504 521 533 534
536 545 549 551 565 575 581 585 596 617
622 625 626 639 650 653 663 664 689 690
696 707 715 735 754 762 763 772 775 783
793 796 799 828 852 866 891 894 904 905
906 909 918 921 922 923 933 951 952 953
954 957 973 975 983 984 988 992 997 998
999 1004 1005 1007 1033 1034 1055 1080 1081 1082
1083 1091 1092 1104 1105 1106 1107 1129 1143 1174
1214 1223 1228 1257 1262 1276 1295 1317 1318 1331
1343 1363 1364 1372 1381 1382 1383 1387 1389 1388
1391 1394 1414 1415 1427 1442 1450 1451 1454 1466
1493 1499 1501 1510 1521 1524 1586 1587 1601 1632
1636 1649 1650 1655 1669 1688 1698 1724 1725 1726
1727 1728 1729 1730 1739 1741 1746 1753 1762 1765
1769 1771 1772 1783 1799 1801 1802 1807 1809 1822
1826 1834 1843 1849 1856 1876 1885 1922 1923 1948
1965 1971 1983 1995 2012 2013 2015 2017 2018 2019
2028 2037 2038 2039 2049 2050 2051 2055 2063 2064
2068 2087 2089 2098 2118 2127 2132 2133 2134 2135
2144 2159 2160 2164 2187 2195 2197 2201 2209 2240
2254 2261 2264 2266 2279 2280 2288 2289 2305 2316
2317 2319 2320 2325 2340 2351 2362 2365 2370 2384
2397 2413 2414 2415 2416 2428 2429 2430 2440 2441
2448 2459 2460 2467 2471 2490 2512 2513 2514 2526
2529 2530 2540 2545 2572 2583 2589 2590 2592 2596
2609 2633 2653 2657 2661 2667 2669 2678 2684 2685
2690 2691 2692 2701 2703 2710 2716 2720 2723 2724
2726 2728 2740 2743 2744 2745 2746 2748 2749 2824
2840 2845 2846 2854 2872 2874 2879 2880 2881 2885
2892 2908 2911 2913 2944 2961 2975 2979 2981 2982
2985 3019 3020 3026 3040 3057 3059 3070 3075 3080
3085

STOCKING

SAUGER

344 389 476 550 581 695 1002 1105 1237 1374
1375 1531 1614 1632 1718 1989 2037 2248 2296 2351
2609 2690 2691 2899 2936 3000 3001 3028 3031

WALLEYE

28 33 40 41 42 43 44 47 50 52
62 66 70 71 74 83 86 121 138 145
151 166 191 197 200 222 238 239 245 247
248 249 253 264 265 266 288 296 307 309
320 331 335 344 363 389 405 411 412 440
464 466 468 476 482 498 500 512 520 533
538 539 549 550 557 569 581 592 624 626
628 635 636 641 687 692 694 695 722 728
780 785 786 787 794 795 850 856 857 875
876 877 878 891 894 895 897 898 929 930
933 934 955 956 962 1001 1002 1015 1016 1017
1029 1030 1044 1052 1053 1057 1059 1061 1062 1064
1070 1071 1072 1074 1075 1076 1078 1082 1083 1084
1085 1094 1096 1103 1105 1108 1120 1121 1140 1161
1169 1201 1224 1227 1237 1240 1243 1261 1276 1281
1312 1331 1341 1348 1357 1369 1372 1374 1375 1379
1380 1386 1393 1412 1419 1452 1453 1467 1485 1488
1489 1501 1510 1516 1521 1531 1534 1546 1579 1580
1581 1582 1586 1587 1614 1618 1632 1677 1679 1684
1706 1708 1710 1718 1737 1746 1747 1760 1782 1788
1798 1801 1818 1826 1843 1849 1856 1857 1862 1863
1867 1868 1889 1892 1896 1897 1932 1933 1948 1950
1953 1954 1955 1956 1957 1958 1959 1960 1961 1980
1989 1995 1998 2000 2004 2012 2026 2037 2061 2069
2100 2101 2102 2103 2107 2110 2111 2112 2119 2130
2133 2154 2168 2176 2182 2199 2212 2233 2248 2260
2261 2263 2264 2284 2291 2296 2298 2302 2307 2308
2319 2320 2328 2330 2348 2351 2370 2395 2396 2403
2417 2419 2422 2431 2441 2443 2461 2475 2491 2507
2508 2511 2515 2528 2535 2537 2538 2541 2543 2558
2559 2564 2573 2577 2582 2583 2609 2611 2626 2637
2638 2639 2646 2649 2650 2660 2676 2690 2691 2721
2740 2760 2767 2768 2798 2828 2840 2844 2845 2867
2868 2873 2886 2899 2905 2936 2962 2969 2970 2975
2976 2978 2979 2982 2983 2990 2997 3000 3001 3009
3010 3011 3019 3028 3030 3031 3032 3039 3042 3045
3050 3051 3059 3092 3109

TAXONOMY

SAUGER

10 69 147 150 194 195 196 204 206 460
504 543 544 545 551 574 581 637 662 718
721 741 748 751 826 859 884 885 886 918
919 1002 1014 1018 1034 1054 1131 1163 1212 1245
1292 1298 1299 1300 1301 1304 1421 1424 1425 1426
1427 1428 1429 1525 1570 1592 1597 1638 1639 1640
1875 1883 2046 2161 2170 2234 2283 2295 2536 2575
2624 2630 2689 2771 2772 2857 2858 2884 2987 3031
3087

WALLEYE

10 54 69 124 147 148 150 194 196 195
204 206 210 224 277 317 421 460 504 533
543 544 545 551 560 574 581 637 662 718
721 741 748 751 774 778 826 828 859 886
918 919 996 1002 1014 1034 1054 1131 1163 1212
1245 1292 1298 1299 1301 1304 1420 1421 1424 1425
1426 1427 1428 1429 1442 1491 1544 1570 1572 1597
1638 1639 1640 1767 1813 1875 1883 1926 2046 2068
2090 2161 2170 2173 2234 2283 2295 2418 2536 2572
2575 2623 2624 2630 2645 2689 2712 2737 2771 2772
2857 2858 2883 2884 2904 2987 3031 3087

TOXICANTS

SAUGER

39 478 546 1058 1519 1520 1643 1814 2236 2505

WALLEYE

18 39 60 104 105 161 166 240 268 273
478 533 546 657 860 947 1011 1058 1099 1208
1241 1259 1272 1397 1474 1481 1518 1519 1520 1563
1580 1644 1651 1652 1699 1700 1775 1778 1779 1814
1893 2099 2189 2311 2320 2379 2412 2428 2442 2469
2486 2487 2505 2571 2581 2582 2664 2665 2682 2894
2914 2935 2942 2943 3057 3058

WATER LEVELS

SAUGER

61 230 232 234 235 393 904 905 906 1394
1450 2050 2055 2159 2609 2690 2691 2726 2824 2879
2880 2881 2939 2940

WALLEYE

61 109 144 190 231 232 234 235 393 477
517 533 636 651 652 794 905 904 906 955
973 974 975 1369 1383 1394 1450 1454 1554 1739
1772 1841 1885 2050 2055 2073 2133 2159 2176 2199
2201 2319 2320 2591 2609 2690 2691 2726 2777 2824
2840 2879 2880 2881 2923 2935 2940 3004 3043 3046
3050 3059